MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING PROGRAM

SCOPE OF TEST CODE # 5 – BUILDING & PROPERTY MAINTENANCE

WRITTEN EXAM – 100 QUESTIONS

TIME ALLOWED: 3 HOURS

PERCENT OF TEST:

9% Building Alteration, Preparatory Painting and Repair of Wood Plaster, Concrete or Brick
12% Building Maintenance
11% Building Repair Materials
5% Energy Efficiency and Green Building Technology
10% Heating, Ventilation and Air Conditioning Troubleshooting
16% Landscaping and Grounds Maintenance
6% Building & Property Maintenance Related Mathematics
5% Painting and Finishing
3% Record Keeping
7% Safety
5% Technical Drawings and Blueprints
11% Tool and Equipment Use

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION FRAMEWORK. ALL EXAMS ARE ALIGNED WITH THE MATCHING FRAMEWORK.

SOME QUESTIONS REQUIRE A SYNTHESIS OF KNOWLEDGE BASED ON EXPERIENCE IN THE FIELD AND MAY NOT BE FOUND IN ANY BOOK. HOWEVER, CANDIDATES ARE ENCOURAGED TO PREPARE FOR THEIR EXAMS BY REVIEWING TEXTBOOKS AND REFERENCE MATERIAL WHICH HAS BEEN LISTED AS PART OF THIS EXAM OUTLINE. THESE RESOURCES CAN BE FOUND USING ONLINE SEARCH TOOLS, ONLINE VENDORS AND WEBSITES. CONTACT THE VOCATIONAL TECHNICAL TEACHER TESTING OFFICE IF YOU NEED FURTHER ASSISTANCE IN LOCATING RESOURCES LISTED IN THE EXAM OUTLINE. USE THE EXAM OUTLINE AND THE MA VOCATIONAL TECHNICAL EDUCATION FRAMEWORKS TO FOCUS YOUR PREPARATION FOR THE EXAM.

You may refer to https://www.doe.mass.edu/ccte/cyte/frameworks/ for the Massachusetts Vocational Technical Education Frameworks.
THE FOLLOWING LIST OF REFERENCE MATERIALS WAS DEVELOPED AS A GUIDE FOR WRITTEN EXAM CANDIDATES:

HOME REPAIR AND MAINTENANCE by Jack M. Landers
Goodheart-Wilcox Co., Inc. (ISBN # 0-87006-569-6)

MODERN CARPENTRY by Willis H. Wagner
Goodheart-Wilcox Co., Inc. (ISBN # 0-87006-875-X)

MASSONRY SKILLS by R. T. Kreh, Sr.

BASIC CONSTRUCTION BLUEPRINT READING by Mark W. Huth
Delmar Publishers, Inc. (ISBN # 0-8273-3233-5)

FUNDAMENTALS OF CARPENTRY TOOLS, MATERIALS AND PRACTICES by Durbahn and Putnam

LOW PRESSURE BOILERS by Frederick Steingross

NEW GARDEN BOOK by Better Homes and Gardens

HORTICULTURE GARDNER’S DESK REFERENCE by Anne Moyer Halpin
John Wiley & Sons Inc

GARDEN DOCTOR by Better Homes and Gardens
Better Homes and Gardens

SCOTT’S LAWN: YOUR GUIDE TO A BEAUTIFUL YARD by Nick Christmas and Ashton Ritchie
Meredith Books

AMERICAN HORTICULTURE SOCIETY GARDENING MANUAL by American Horticulture Society
Dorling Kindersley Publishing, Inc.

LANDSCAPE DESIGN, CONSTRUCTION AND MAINTENANCE by Biondo and Schroeder
Boston MA Pearson

CONSTRUCTION AND BUILDING TECHNOLOGY by Blankenbaker
Goodheart-Wilcox, Inc.
The written exam consists of 100 multiple choice questions. Each question consists of one incomplete sentence or a question followed by four choices. Listed below are several sample items:

The size of a portable drill is determined by:

- a. horsepower of the motor.
- b. highest rpm capability.
- c. length of the drill body.
- * d. capacity of the chuck.

The three numbers on a bag of fertilizer always represent:

- * a. nitrogen, phosphate and potash in that order.
- b. nitrogen, lime and potash in that order.
- c. nitrogen, potash and phosphate in that order.
- d. potash, lime and nitrogen in that order.

* indicates correct answer

THE TEACHER TESTING PROGRAM WILL PROVIDE NON-PROGRAMMABLE CALCULATORS FOR USE IN COMPLETING THE WRITTEN EXAM. DOCUMENTATION REGARDING THESE CALCULATORS WILL BE INCLUDED IN YOUR ADMISSION PACKAGE.
MASSACHUSETTS VOCATIONAL TECHNICAL TEACHER TESTING PROGRAM

SCOPE OF TEST CODE # 5 – BUILDING & PROPERTY MAINTENANCE

PERFORMANCE EXAM

TIME ALLOWED: 5 HOURS

PERCENT OF TEST:

22% Outdoor Power Equipment Basic Repairs
   • Install Head, Gap Sparkplug, Sharpen Mower blade, Identify small engine components

24% Building Maintenance Skills
   • Maintain hand & power tools, construct a copper tubing project, troubleshoot a HVAC common problem

48% Building Repair and Alteration
   • Construct basic window frame, prepare door jamb, install hinge, repair drywall

6% Safety
   • Candidates will be assessed on the use of appropriate PPE, industry & OSHA recommended safety procedures, tool use and cleanliness.

THE INTENT OF THIS EXAM IS TO ASSESS YOUR ABILITY TO TEACH THE SKILLS FOUND IN THE MASSACHUSETTS VOCATIONAL TECHNICAL EDUCATION FRAMEWORK. ALL EXAMS ARE ALIGNED WITH THE MATCHING FRAMEWORK.

PERFORMANCE EXAM CANDIDATES WILL BE ASSESSED ON THEIR COMPLETION OF THE EXAM TASKS AND THEIR DEMONSTRATION OF INDUSTRY AND OSHA RECOMMENDED SAFETY PROCEDURES.

MOST TASKS REQUIRE A SYNTHESIS OF KNOWLEDGE BASED ON EXPERIENCE IN THE FIELD AND MAY NOT BE FOUND IN ANY BOOK. HOWEVER, CANDIDATES ARE ENCOURAGED TO PREPARE FOR THEIR EXAMS BY REVIEWING TEXTBOOKS AND REFERENCE MATERIAL WHICH HAS BEEN LISTED AS PART OF THIS EXAM OUTLINE. THESE RESOURCES CAN BE FOUND USING ONLINE SEARCH TOOLS, ONLINE VENDORS AND WEBSITES. CONTACT THE VOCATIONAL TECHNICAL TEACHER TESTING OFFICE IF YOU NEED FURTHER ASSISTANCE IN LOCATING RESOURCES LISTED IN THE EXAM OUTLINE. USE THE EXAM OUTLINE AND THE MA VOCATIONAL TECHNICAL EDUCATION FRAMEWORKS TO FOCUS YOUR PREPARATION FOR THE EXAM.
BASIC EQUIPMENT REQUIRED/PPE - (CANDIDATE MUST SUPPLY)
Face Mask (cotton face covering or respirator which fully cover the nose and mouth)
Eye Protection
Disposable Gloves
Industry Approved Work Clothes and Boots/Shoes

Candidates must practice social distancing and wear the appropriate face covering that covers the nose and mouth while at the exam site.

ALL NECESSARY TOOLS WILL BE AVAILABLE HOWEVER CANDIDATES ARE ALLOWED TO BRING ANY PERSONAL TOOLS, ETC. THAT THEY FEEL WILL ASSIST THEM IN COMPLETING THE EXAM.

THE FOLLOWING LIST OF REFERENCE MATERIALS WAS DEVELOPED AS A GUIDE FOR PERFORMANCE EXAM CANDIDATES:

Safety Orientation NCCER, Person Prentice Hall
www.crafttraining.com

www.osha.gov Go to Regulations, select sections:
1910.1200 - Hazard Communication
1910 Subpart I - Personal Protective Equipment

You may refer to https://www.doe.mass.edu/ccte/cvte/frameworks/ for the Massachusetts Vocational Technical Education Frameworks.

CANDIDATES ARE REMINDED THAT THE USE OF A CALCULATOR IS ALLOWED FOR THE PERFORMANCE EXAM PROVIDING YOU BRING YOUR OWN.